

Title (en)
X-RAY GENERATOR AND RADIOGRAPHY SYSTEM

Title (de)
RÖNTGENGENERATOR UND RADIOGRAFIESYSTEM

Title (fr)
GÉNÉRATEUR DE RAYONS X ET SYSTÈME DE RADIOGRAPHIE

Publication
EP 3544390 A1 20190925 (EN)

Application
EP 16921967 A 20161117

Priority
JP 2016004908 W 20161117

Abstract (en)
An X-ray generating device includes an X-ray tube; a drive circuit that drives the X-ray tube; a voltage generation circuit that generates an electron acceleration voltage applied to the X-ray tube; and a control unit that communicates with the drive circuit and the voltage generation circuit, at least the X-ray tube, the drive circuit, and the voltage generation circuit are arranged inside a storage container filled with an insulating oil, at least a part of a path connecting the drive circuit and the control unit is formed of an optical fiber cable arranged inside the storage container, and the optical fiber cable has a coating that suppresses fluctuation of the optical fiber cable due to a convective flow of the insulating oil generated at driving of the voltage generation circuit.

IPC 8 full level
G02B 6/44 (2006.01); **H05G 1/06** (2006.01); **H05G 1/08** (2006.01); **H05G 1/34** (2006.01)

CPC (source: EP KR US)
G02B 6/00 (2013.01 - EP); **G02B 6/4417** (2013.01 - EP); **G02B 6/442** (2013.01 - EP); **G02B 6/4479** (2013.01 - EP); **G02B 6/4486** (2013.01 - EP); **H05G 1/06** (2013.01 - EP KR US); **H05G 1/08** (2013.01 - EP KR US); **H05G 1/32** (2013.01 - KR US); **H05G 1/30** (2013.01 - EP US)

Cited by
EP3637960A4; US11039526B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2018139828 A1 20180517; **US 9980357 B1 20180522**; CN 109983847 A 20190705; CN 109983847 B 20230217;
EP 3544390 A1 20190925; EP 3544390 A4 20200617; EP 3544390 B1 20210922; JP 6190563 B1 20170830; JP WO2018092174 A1 20181115;
KR 102252812 B1 20210518; KR 20190061058 A 20190604; TW 201828777 A 20180801; TW I645746 B 20181221; US 10631390 B2 20200421;
US 2018242439 A1 20180823; WO 2018092174 A1 20180524

DOCDB simple family (application)
US 201715797212 A 20171030; CN 201680090922 A 20161117; EP 16921967 A 20161117; JP 2016004908 W 20161117;
JP 2017513257 A 20161117; KR 20197013061 A 20161117; TW 106138241 A 20171106; US 201815959372 A 20180423